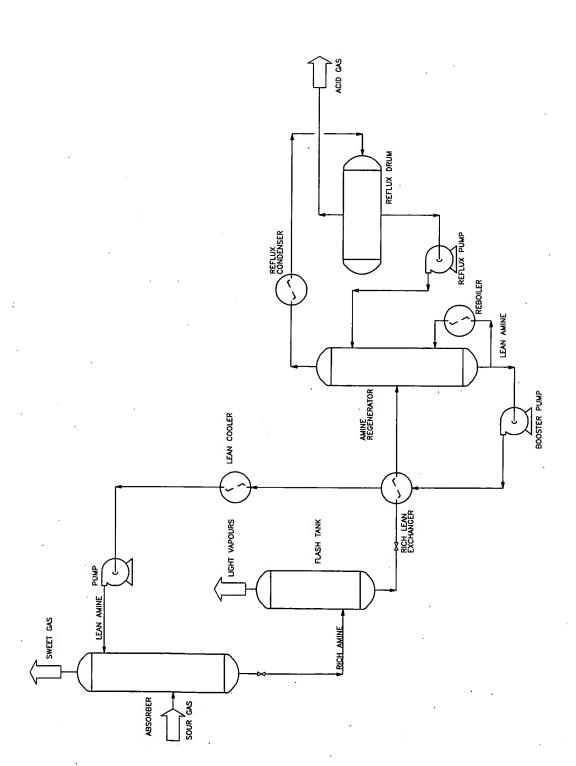
Figure 1

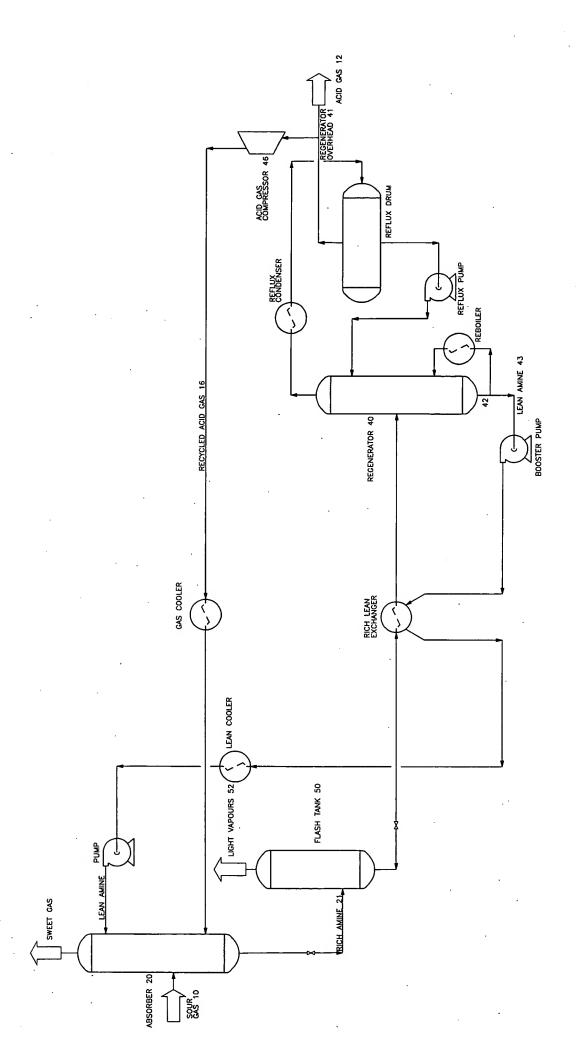
$$CO_2 + AMINE \rightarrow [AMINE]^* + [AMINE - C - O]$$

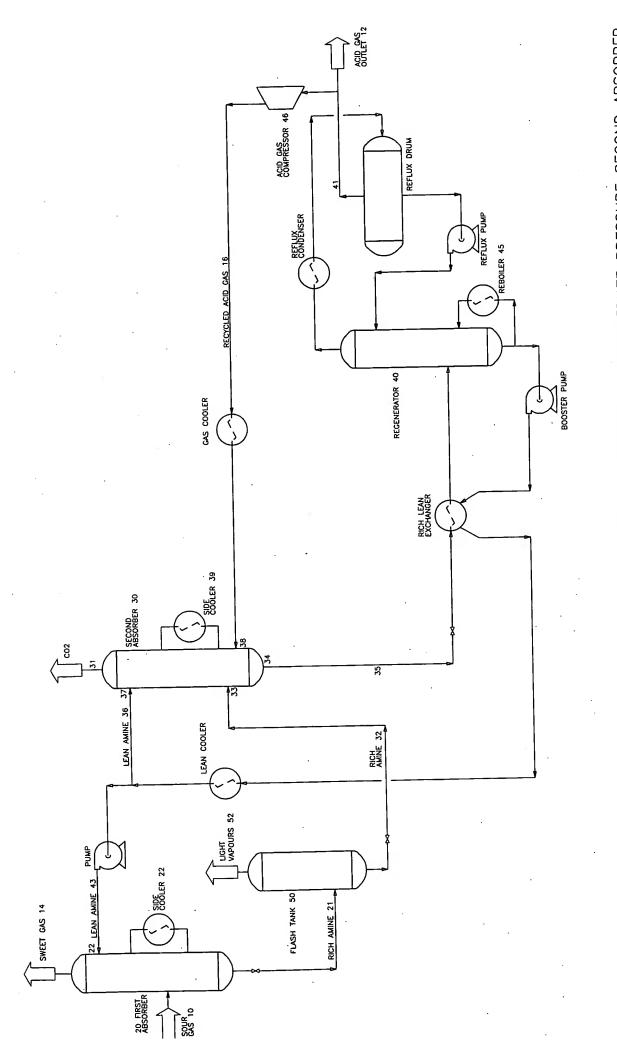
$$CO_2 + H_2O \rightarrow H_2CO_3$$

 $H_2CO_3 \rightarrow H^- + HCO_3^-$
 $HCO_3 \rightarrow H^+ + CO_3^-$
 $H^+ + AMINE \rightarrow [AMINE - H]^-$

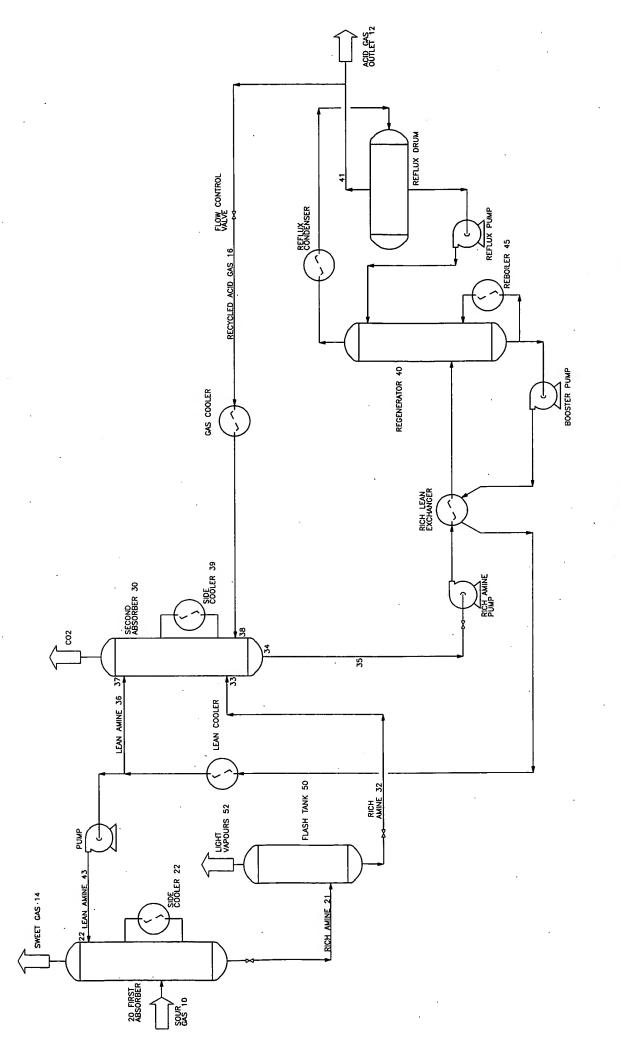
Figure 2



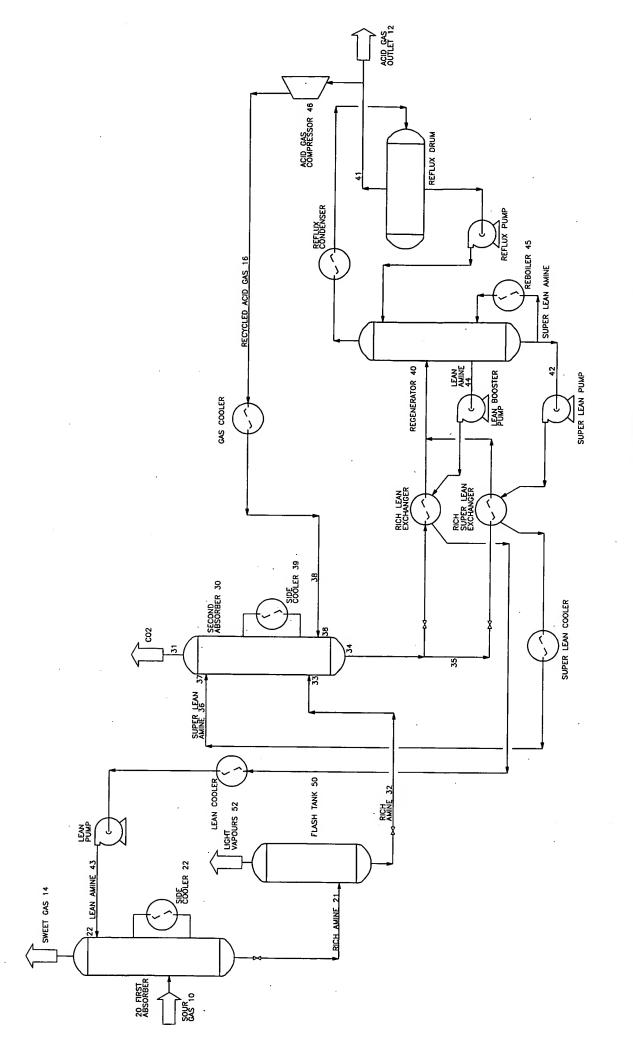




- INTERMEDIATE PRESSURE SECOND ABSORBER FIGURE 5 SINGLE EFFECT PROCESS



SINGLE EFFECT PROCESS — LOW PRESSURE SECOND ABSORBER FIGURE 6



SINGLE EFFECT PROCESS WITH LEAN/SUPERLEAN SYSTEM FIGURE 7

DOUBLE EFFECT PROCESS FIGURE 8